PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see F	orm PCT/ISA/220 re applicable, item 5 below.			
153756-2 DK International application No.	ACTION International filing date (day)	/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/IL04/00951	17 October 2004 (17.10.200	4)	17 October 2003 (17.10.2003)			
Applicant						
EXPLAY LTD.						
according to Article 18. A copy is being	Haisinited to die member	l Searching Auti al Bureau.	nority and is transmitted to the applicant			
This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.						
language in which it was filed, the internations	al search was carried out on the	ed out on the basi or this item. basis of a transla	is of the international application in the			
to this Authority (Rule 23.1(b)). to this Authority (Rule 23.1(b)). to this Authority (Rule 23.1(b)).						
b. With regard to any nucleotide and of the best of th						
3. Unity of invention is lacking (See Box No. III)						
4. With regard to the title, the text is approved as submitted by the applicant.						
the text has been established by this Authority to read as follows:						
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5. With regard to the abstract,						
the text is approved as sub		by this Authority	as it appears in Box No. IV. The applicant h report, submit comments to this Authority.			
the text has been establish may, within one month fre	ed, according to Kute 38.2(0), to om the date of mailing of this in	ternational searc	h report, submit comments to this Authority.			
a. the figure of the drawings to be published with the abstract is Figure No. 2 as suggested by the applicant.						
as suggested by the	as suggested by the applicant failed to suggest a figure.					
as selected by the	is Authority, because this figure	better characteri	zes the invention.			
none of the figures is to b	e published with the abstract.					
Form PCT/ISA/210 (first sheet) (January						

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL04/00951

	TO ARTHE ARCTRACT	(Continuation of Item 5 of the first sheet)
Ray IV	LEX. OF IBE VIDERIORS.	(

NEW ABSTRACT

An optical system and method are presented to produce a desired illuminating light pattern. The system comprises a light source (202) system configured and operable to produce structured light in the form of a plurality of spatially separated light beams; and a beam shaping arrangement (210). The beam shaping arrangement is configured to as a diffractive optical unit configured and operable to carry out at least one of the following: (i) combining an array of the spatially separated light beams into a single light beam thereby significantly increasing intensity of the illuminating light; (ii) affecting intensity profile light of a substantially rectangular uniform intensity profile.

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)

International applic			ation No.		
INTERNATIONAL SEARCH REPORT PCT/IL04/00951					
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	SIFICATION OF SUBJECT MATTER : G02B 27/10; H01S 03/10				
IPC(7) US CL	250/510 222/01	IDC			
US CL : 359/619; 37/221 According to International Patent Classification (IPC) or to both national classification and IPC					
	OS SEARCHED	n)			
Minimum doo	numentation searched (classification system followed by classification symbol 9/618, 619, 620, 625, 626, 563, 566, 569; 371/21, 43.01, 50.12	.a)			
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Electronic do	ta base consulted during the international search (name of data base and, whe	re practicable, search	terms used)		
Please See Co	ontinuation Sheet				
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C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No.					
Category *	Citation of document, with indication, where appropriate, of the relevant passages				
х	US 6,563,567 A (KOMATSUDA et al) 13 May 2003 (13.05.2003)				
x	US 2002/0191913 A1 (HOCKER et al.) 19 December 2002 (19.12.2002). 77				
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A	Larger 105 105 A CHENTON et al.) 16 March 1993 (16.03,1993).				
	A Turunen. J., "Optimisation and Fabrication of Grating Beamsplitters", J. Phys. D: Appl. Phys.				
A	1 31 (1098) \$(102)-\$(105).				
A	a new cash. A 31/ "A my filuminators and Complexity Theory", UP I ICS				
	COMMUNICATIONS 69 (1772), 107-112.				
See patent family annex.					
Furthe	r documents are listed in the continuation of Box C. See patern	ent published after the intern	national filing date or priority		

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<u> </u>	Special categories of cited documents:	-T-	later document published after the international filling date or priority date and not in conflict with the application but cited to understand the
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"O"	document referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art
-p-	document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family
Da	te of the actual completion of the international search	Date of 1	mailing of the international search report
07	August 2005 (07.08.2005)	Authoriz	द्भव वृक्तिव्हा
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Continuation of B. FIELDS SEARCHED Item 3: USPAT, USPGPub, EPO, IPO, Derwent: search terms: spatial\$2 adj2 separat\$3, array, dammann, tophat, beamshap\$3 o or intensity) near3 profile	r (beam near2 shap\$3) or beam-shap\$3, (light or illuminat\$3
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International application No.

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